

Comparisons of Job Characteristics

Focus Occupation: **Surgeons (29-1067)**

Associated Occupation: **Physicians and Surgeons, All Other (29-1069)**

[Compare Knowledge](#)

[Compare Skills](#)

[Compare Abilities](#)

[Compare Detailed Work Activities](#)

[Compare Tools and Technologies](#)

<<	Focus occupation element is much lower
<	Focus occupation element is lower
0	Focus occupation element is at a similar level
>	Focus occupation element is at a higher level
>>	Focus occupation element is at a much higher level

Knowledge

Similarity of Focus Occupation to Associated Occupation: 95

Focus Occupation: **Surgeons (29-1067)**

Associated Occupation: **Physicians and Surgeons, All Other (29-1069)**

Associated Occupation's Key Knowledge Elements	Average Rating, All Occupations	Associated Occupation's Rating	Focus Occupation's Rating		Evaluation of Focus Occupation
Medicine and Dentistry	3.7	22.4	25.0	>	Current knowledge level is likely sufficient
Biology	3.7	17.0	16.8	0	Current knowledge level may be sufficient
English Language	11.2	17.0	14.8	<	Expanded education and/or training may be required
Psychology	6.4	13.2	15.8	>	Current knowledge level is likely sufficient
Therapy and Counseling	3.8	12.4	14.4	>	Current knowledge level is likely sufficient
Chemistry	4.8	10.7	10.4	0	Current knowledge level may be sufficient
Sociology and Anthropology	4.1	8.5	6.5	<	Expanded education and/or training may be required

The maximum possible rating is 25.

Source: Alaska Department of Labor and Workforce Development, Research and Analysis Section analysis of O*NET (Occupation Information Network) data.

Skills

Similarity of Focus Occupation to Associated Occupation: 94

Focus Occupation: **Surgeons (29-1067)**

Associated Occupation: **Physicians and Surgeons, All Other (29-1069)**

Associated Occupation's Key Skills Elements	Average Rating, All Occupations	Associated Occupation's Rating	Focus Occupation's Rating		Evaluation of Focus Occupation
Reading Comprehension	10.7	17.1	19.5	>	Skill level is likely sufficient
Critical Thinking	10.8	15.8	16.9	0	Current skill level may be sufficient
Active Learning	8.7	14.8	17.3	>	Skill level is likely sufficient
Social Perceptiveness	9.1	14.4	13.6	0	Current skill level may be sufficient
Judgment and Decision Making	9.4	14.2	16.0	>	Skill level is likely sufficient
Complex Problem Solving	9.1	14.1	15.4	0	Current skill level may be sufficient
Monitoring	9.9	13.9	14.8	0	Current skill level may be sufficient

Coordination	9.1	12.8	11.9	0	Current skill level may be sufficient
Instructing	7.8	12.8	13.8	0	Current skill level may be sufficient
Service Orientation	7.9	12.8	12.3	0	Current skill level may be sufficient
Science	4.5	12.3	16.0	>>	Skill level is likely more than sufficient
Learning Strategies	7.2	11.6	11.3	0	Current skill level may be sufficient
Systems Evaluation	6.4	11.0	9.3	<	A higher skill level may be required
Systems Analysis	6.5	10.8	8.5	<	A higher skill level may be required
Management of Personnel Resources	6.9	10.6	10.6	0	Current skill level may be sufficient

The maximum possible rating is 25.

Source: Alaska Department of Labor and Workforce Development, Research and Analysis Section analysis of O*NET (Occupation Information Network) data.

Abilities

Similarity of Focus Occupation to Associated Occupation: 87

Focus Occupation: Surgeons (29-1067)

Associated Occupation: Physicians and Surgeons, All Other (29-1069)

Associated Occupation's Key Abilities Elements	Average Rating, All Occupations	Associated Occupation's Rating	Focus Occupation's Rating	Evaluation of Focus Occupation
Problem Sensitivity	11.1	18.4	21.8	>> Current ability level is likely more than sufficient
Inductive Reasoning	10.2	18.2	18.5	0 Current ability level may be sufficient
Oral Comprehension	12.5	17.3	18.0	0 Current ability level may be sufficient
Oral Expression	12.4	17.2	17.3	0 Current ability level may be sufficient
Written Comprehension	11.0	16.3	17.5	0 Current ability level may be sufficient
Deductive Reasoning	10.6	15.9	17.0	0 Current ability level may be sufficient
Written Expression	9.8	14.6	15.6	0 Current ability level may be sufficient
Speech Clarity	10.2	14.0	15.0	0 Current ability level may be sufficient
Speech Recognition	9.9	13.6	13.9	0 Current ability level may be sufficient
Information Ordering	9.9	13.0	14.2	0 Current ability level may be sufficient
Category Flexibility	9.0	12.8	12.6	0 Current ability level may be sufficient
Flexibility of Closure	7.8	12.3	13.0	0 Current ability level may be sufficient

The maximum possible rating is 25.

Source: Alaska Department of Labor and Workforce Development, Research and Analysis Section analysis of O*NET (Occupation Information Network) data.

There are no common work activities.

Tools and Technologies that Both Occupations Have in Common

Similarity of Focus Occupation to Associated Occupation: 54

Focus Occupation: Surgeons (29-1067)

Associated Occupation: Physicians and Surgeons, All Other (29-1069)

Tools and Technologies	Exclusivity
Cameras	2
Computers	1

Content authoring and editing software	1
Electrocardiography EKG units and related products	20
Emergency medical services resuscitation products	15
Endoscopes and accessories and related products	37
Endoscopic instruments and supplies and accessories and related products	62
Face and head protection	7
Industry specific software	1
Intravenous and arterial cannulas and catheters and accessories	29
Intravenous and arterial tubing and administration sets and related products	22
Intravenous infusion pumps and its analyzers and sensors and its accessories	31
Medical gloves and accessories	19
Medical staff clothing and related articles	17
Medical ultrasound and doppler and echo imaging products	19
Oxygen therapy delivery systems and devices	13
Pulse oximeters	18
Scopes and specula and accessories for medical exam diagnostic use	23
Surgical clamps and forceps and surgical ligators and related instruments	29
Surgical cutting instruments and snares and related products	24
Surgical dissectors and elevators and picks and related products	56
Surgical equipment and accessories and related products	23
Suture and related products	23
Suture and surgical tissue closure instruments and related products	33

Not all positions in these occupations will necessarily use all of the listed tools and technologies. The exclusivity rating is an indication of how unique the tool or technology is amongst all occupations. The maximum rating is 100. High scores indicate that only a small number of occupations use that tool or technology.

Source: Alaska Department of Labor and Workforce Development, Research and Analysis Section analysis of O*NET (Occupation Information Network) data.